	Application No.	Applicant(s)	
Notice of Allowability	09/939,145	QIU ET AL.	
	Examiner	Art Unit	
	Christopher M. Keehan	1712	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the 35) or other appropriate communi RIGHTS. This application is sub-	nis application. If not includication will be mailed in due	ed course. THIS
1. This communication is responsive to the application filed	<u>1 8/24/01</u> .		
2. The allowed claim(s) is/are <u>1-17</u> .			
3. The drawings filed on are accepted by the Exami	ner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application l	No	tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file a NMENT of this application.	reply complying with the red	quirements
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which g 	omitted. Note the attached EXAM ives reason(s) why the oath or de	INER'S AMENDMENT or Neclaration is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such in 	erson's Patent Drawing Review (er's Amendment / Comment or in	the Office action of	back) of
 DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN 	oosit of BIOLOGICAL MATER T FOR THE DEPOSIT OF BIOLO	RIAL must be submitted. I OGICAL MATERIAL.	Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4/14/03 4. ☑ Examiner's Comment Regarding Requirement for Deposi of Biological Material	6. Interview Sum Paper No./Ma 3/08), 7. Examiner's An	mal Patent Application (PT0 mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allo	

Application/Control Number: 09/939,145

Art Unit: 1712

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jian Zhou on July 20, 2004.

The application has been amended as follows: on page 1, line 6 of the specification, --Cross-Reference to Related Application

This application claims the benefit of provisional application 60/228,022, filed August 24, 2000.-- has been inserted.

In claim 5, "any one of claims 1 to 4" has been replaced with –claim 1--. In claim 6, "any one of claims 1 to 5" has been replaced with –claim 1--. In claim 7, "any one of claims 1 to 6" has been replaced with –claim 1--. In claim 9, "any one of claims 1 to 8" has been replaced with –claim 1--. In claim 10, "any one of claims 1 to 9" has been replaced with –claim 1--. In claim 11, "any one of claims 1 to 10" has been replaced with –claim 1--. In claim 13, "claims 11 or 12" has been replaced with –claim 12--. In claim 14, "any one of claims 1 to 13" has been replaced with –claim 1--.

In the Abstract, delete the current Abstract and replace with the following:

Application/Control Number: 09/939,145

Art Unit: 1712

-The invention relates to a process for coating a material surface, comprising the steps of: (a) applying to the material surface a tie layer comprising a polyionic material; (b) covalently binding a bifunctional compound comprising an ethylenically unsaturated double bond to the tie layer; and (c) graft polymerizing a hydrophilic monomer onto the compound comprising the ethylenically unsaturated double bond. The coated articles that are obtainable by the process of the invention have desirable characteristics regarding adherences to the substrate, durability, hydrophilicity, wettability, biocompatibility and permeability and are thus useful for the manufacture of biomedical articles such as ophthalmic devices.--.

The following is an examiner's statement of reasons for allowance: a reasonable search of the prior art failed to reveal the limitations as set forth in claim 1. Winterton et al. (WO 99/35520) disclose coating a substrate with a polycationic material, and repeating this coating step, which could meet the limitation of step (b). Winterton et al. do not teach or disclose step (c), graft polymerizing a hydrophilic monomer onto the layer produced in step (b). Chabrecek et al. (5,527,925) disclose coating a substrate comprising covalently bonded initiator molecules to a substrate that has been functionalized by plasma treatment, and then graft polymerizing a hydrophilic macromonomer of ethylenic unsaturation to this layer. Chabrecek et al. do not teach or disclose applying a layer comprising a polyionic material to the substrate.

Application/Control Number: 09/939,145

Art Unit: 1712

Page 4

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Keehan whose telephone number is (571) 272-1087. The examiner can normally be reached on Monday-Friday, from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Keehan DAVID J. BUTTNER

PRIMARY EXAMINER

July 20, 2004

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